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EDUCATION

- 2007 – 2013 Ph.D. in Neuroscience, Seoul National University, South Korea
Thesis: Neuroimaging and Psychophysical Studies on Stimulus-induced Spatiotemporal Dynamics of Contextual Modulation in Human Vision
- 2003 – 2007 B.A. in Psychology, Seoul National University, South Korea

RESEARCH EXPERIENCE

- 10/2013 – present* Postdoctoral Researcher (*promoted to Research Fellow since 10/2018)
Section on Cognitive Neurophysiology and Imaging, Laboratory of
Neuropsychology, National Institute of Mental Health, MD, USA
PI: Dr. David Leopold
- 9/2013 – 11/2014 Postdoctoral Researcher, Dep. of Brain and Cognitive Sciences,
Seoul National University, South Korea
PI: Dr. Sang-Hun Lee
- 8/2011 – 11/2011 Visiting student, Dep. of Psychology, Vanderbilt University, TN, USA
PI: Dr. Randolph Blake
- 3/2007 – 8/2013 Graduate Student, Interdisciplinary Program in Neuroscience,
Seoul National University, South Korea
PI: Dr. Sang-Hun Lee
- 3/2005 – 2/2007 Undergraduate Research Assistant, Laboratory of Dr. Sang-Hun Lee,
Dep. of Psychology, Seoul National University, South Korea

PUBLICATIONS

Park SH*, Koyano KW, Russ BE, McMahon DBT, Waidmann EN, Leopold DA* (2022) Parallel functional subnetworks embedded in the macaque face patch system. *Science Advances* 8(10):eabm2054. doi: 10.1126/sciadv.abm2054. Epub 2022 Mar 9. PMID: 35263138. (*co-corresponding)

Leopold DA, **Park SH** (2020) Studying the visual brain in its natural rhythm. *NeuroImage* 216: 116790.

Park SH*, Russ BE, McMahon DBT, Koyano KW, Berman RA, Leopold DA* (2017) Functional subpopulations of neurons in a macaque face patch revealed by single-unit fMRI mapping. *Neuron* 95: 971–981. (*co-corresponding)

Park SH*, Cha K*, Lee S-H (2013) Coaxial anisotropy of cortical point spread in human visual areas. *Journal of Neuroscience* 33:1143–1156. (*co-first)

GRANTS & FELLOWSHIPS

- 12/2014 – 11/2016 Korea Visiting Scientist Training Fellowship (45,455 USD / year)
Korea Health Industry Development Institute
- 2007 – 2009 Teaching & Learning Scholarship, Seoul National University

HONORS & AWARDS

- 2020 OFT NIMH IRP Trainee Travel Award (1,000 USD)
NIMH IRP Office of Fellowship Training
- 2018 Best Poster Award (Top 5)
ISMRM Workshop on Advanced Neuro MR: Best Practices for Technical Implementation
- 2016 Excellent Research Award
NIH-Korean Scientists Association
- 2016 OFT NIMH IRP Trainee Travel Award (1,000 USD)
NIMH IRP Office of Fellowship Training
- 2005 Fall Semester Independent Study Scholarship
Center for Teaching & Learning, Seoul National University
- 2005 Undergraduate Student Research Award (Gold Prize)
Institute of Psychological Science, Seoul National University
*Project: Recognition and Eye
(Team project of 2005 Biological Psychology Lab class)*
- 2004 Undergraduate Student Research Award
Institute of Psychological Science, Seoul National University
*Project: Motion Transparency Related to Direction Difference and Oblique Effect
(Team project of 2004 Experimental Psychology class)*

ORAL PRESENTATIONS

- 2021 Invited talk at Division of Neuroscience Seminar Series, OHSU, Portland, OR, USA
- 2021 Marmoset Neural Recording talk series (Virtual)
Title: Imaging marmoset visual cortex using miniaturized head-mounted microscope
- 2021 Invited talk at Friday Seminar Series, School of Biological Sciences, Seoul National University, Seoul, South Korea (Virtual)
Title: Functional architecture of the high-level visual system in nonhuman primates: new insights from a naturalistic vision paradigm
- 2020 Annual Meeting of the Korean Society for Brain and Neural Sciences, Seoul, South Korea (Virtual)
Invited talk in Symposium “Naturalistic Neuroscience: Towards Understanding Brain Mechanisms in Natural Environments”
Title: Neural responses to naturalistic videos in primate visual system

- 2020 Invited talk at NIMH Fellows Afternoon Neuroscience Seminar series
Title: fMRI mapping of neuronal responses to naturalistic videos reveals mixed functional networks within primate face patches
- 2019 Annual Meeting of the Society for Neuroscience, Chicago, IL, USA
Talk in Minisymposium “Naturalistic Paradigms in Awake Monkeys: Bridging fMRI and Extra-Cellular Activities”
Title: fMRI mapping of neural responses to naturalistic videos reveals enmeshed functional networks within primate face patches
- 2017 Invited talk at Special Lecture Series, Department of Brain & Cognitive Sciences, Seoul National University, Seoul, South Korea
Title: Functional subpopulations of neurons in a macaque face patch revealed by single-unit fMRI mapping
- 2016 8th NIH-Annual Bioscience and Engineering Symposium, North Bethesda, MD, USA
Title: Functional subpopulations of neurons in a macaque face patch revealed by single-unit fMRI mapping
- 2011 Asia-Pacific Conference on Vision, Hong Kong, China
Title: Anisotropic spread of cortical activity in human visual cortex
- 2007 Annual Meeting of the Vision Sciences Society, Sarasota, FL, USA
Title: Feature-specific modulation of gamma oscillations in visual detection

POSTER PRESENTATIONS

- 2018 Annual Meeting of the Society for Neuroscience, San Diego, CA, USA
“Whole-brain fMRI analysis of face-selective neurons in cortex and thalamus”
- 2018 ISMRM Workshop on Advanced Neuro MR: Best Practices for Technical Implementation, Seoul, South Korea (*Selected for Top 5 posters*)
“Using whole-brain activity to investigate single neurons in the face processing system”
- 2017 40th Annual Meeting of the Japan Neuroscience Society, Chiba, Japan
“Functional subpopulations of neurons in a macaque face patch revealed by single-unit fMRI mapping”
- 2016 Gordon Research Conference: Neurobiology of Cognition, Newry, ME, USA
“Functional subpopulations of neurons in a macaque face patch revealed by single-unit fMRI mapping”
- 2015 Annual Meeting of the Society for Neuroscience, Chicago, IL, USA
Godlove et al. “Diverse functional MRI maps derived from the spontaneous activity of multiple neurons recorded simultaneously within a single voxel”
- 2015 Annual Meeting of the Society for Neuroscience, Chicago, IL, USA
“Functional MRI mapping based on responses of face-selective neurons during free viewing of natural videos”

- 2014 Annual Meeting of the Society for Neuroscience, Washington, DC, USA
"Functional MRI mapping of IT single unit responses during natural vision"
- 2012 Asia-Pacific Conference on Vision, Incheon, South Korea
"Center/surround motion interactions measured using a nulling procedure"
- 2010 Cognitive Neuroscience Conference in Korea, Seoul, South Korea
"Anisotropic spread of cortical activity in human visual cortex"
- 2007 Summer Conference of Korean Society for Cognitive and Biological Psychology, Gwangju, South Korea
"Gamma-frequency feature-specific modulation in visual detection: a psychophysical study"
- 2005 Annual Meeting of the Society for Neuroscience, Washington, DC, USA
"Psychophysical evidence for oscillating waves of excitability: analysis of response times"

TEACHING & MENTORING EXPERIENCE

- 2021 Scientists Teaching Science 9-week Pedagogy Course (by NIH)
- 2016 – present Mentoring post-baccalaureate fellows at NIMH (conducting research together daily, teaching scientific skills)
- 2018 – 2021 Stephany Nti (now in Master's program at Salus Univ.)
- 2016 – 2018 Madeline Marcelle (now in MD/PhD program at Georgetown Univ.)
- 2007 – 2009 Psychology: Understanding of Human Mind
(TA, undergraduate course)
- 2007 Introduction to Psychology (TA, undergraduate course)
- 2007 Fall Cognitive Neuroscience (TA, graduate course)
- 2007 Spring Advanced Vision Science (TA, graduate course)

LEADERSHIP & SERVICE

- 2021 – present NIMH Fellows Committee
- 2021 NIH Summer Research Presentation Week: Session Chair
- 2019 Judge, NIH Postbac Poster Day
- 2005 – 2008 Organizer, Lab Journal Club, Seoul National University, South Korea

Mar 10, 2022